



ABSTRACT AND BIOGRAPHY

DoD Enhancements in SE

The mission of the Systems and Software Engineering Directorate is directly tied to execution of the AT&L's strategic thrusts to define effective and affordable tools for the joint warfighter while responsibly spending every single tax dollar, and supporting DoD Transformation priorities. SSE is building on accomplishments of the past four years and institutionalizing systems and software engineering excellence by—

- Cutting cycle time to field capability by embedding systems engineering, test & evaluation, engagement with requirements and early phase acquisition
- Changing engineering culture, both vertically and horizontally, across Government and industry
 - Development of an SE Human Capital Strategy to assure workforce competency
 - Enhancement of SE tools and practices to meet the complexity of today's systems
- Advancing the engineering state-of-practice through research and transition
- Implementing a comprehensive solution for system assurance
 - Ensuring awareness of the cyber threat
 - Implementing countermeasures into acquisition and engineering activity

We are also continuing our analysis of systemic issues that we see in our Program Support Reviews, and defining new guidance for instituting systems Engineering and Program Protection into Pre-Milestone B requirements, Concept Refinement, and Technology Development phases.

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Ms. Kristen Baldwin serves Deputy Director, Software Engineering & System Assurance ODUSD(A&T)/SSE, Pentagon. She is the focal point for developing new software engineering and system assurance policies and strategies, and teaming with Components, Industry and Academia to improve DoD software development and integration process.

Ms. Baldwin serves AT&L as lead for Systems of Systems (SoS) Systems Engineering guidance, Capability Maturity Model Integration (CMMI) oversight, and the Institutional Reform and Governance effort that resulted from the 2005 Quadrennial Defense Review. She has been with OSD since 1998, where she has led the application of capabilities based planning in the acquisition process, with a focus on the integration of requirements, acquisition, and programming processes; served as Deputy Director, Software Intensive Systems; and managed the Tri-Service Assessment Initiative. Prior to OSD, Ms. Baldwin served as a Science and Technology Advisor in the Army's Office



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of the Deputy Chief of Staff for Operations and Plans, and at the Dismounted Battlespace Battle Lab, Fort Benning, GA.

Ms. Baldwin began her career at the US Army's Armament Research, Development, and Engineering Center, Picatinny Arsenal, and is an expert in infantry weapons and munitions.

Ms. Baldwin received a Bachelors degree in Mechanical Engineering from Virginia Tech in 1990 and a Masters in Systems Management from Florida Tech in 1995.